A. Permit Certificate

MUNICIPAL
WASTEWATER REUSE PERMIT
LA-000001-03

The City of Rupert, P.O. Box 426, Rupert, Idaho 83350, Minidoka County AND IN **Township(s) 8S, Range(s) 24, Sections 27, 33, 34, 35 IS** HEREBY AUTHORIZED TO CONSTRUCT, INSTALL, AND OPERATE A WASTEWATER REUSE SYSTEM IN ACCORDANCE WITH THE WASTEWATER REUSE RULES (IDAPA 58.01.17) AND THE WASTEWATER RULES (IDAPA 58.01.16), THE GROUND WATER QUALITY RULE (IDAPA 58.01.11), AND ACCOMPANYING PERMIT, APPENDICES, AND REFERENCE DOCUMENTS. THIS PERMIT IS EFFECTIVE FROM THE DATE OF SIGNATURE AND EXPIRES ON **(60 months from issue date)**.

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Doug Howard
Twin Falls Regional Administrator
Idaho Department of Environmental Quality

Date:

DEPARTMENT OF ENVIRONMENTAL QUALITY
1363 Fillmore Street
Twin Falls, Idaho 83301
Phone (208) 736-2190
Fax (208) 736-2194

POSTING ON SITE RECOMMENDED

B. Permit Contents, Appendices, and Reference Documents

Appendices

1. Environmental Monitoring Serial Numbers
2. Site Maps

References

1. Operation and Maintenance Manual (O&M Manual)
2. Nuisance Odor Management Plan

The Sections, Appendices, and Reference Documents listed on this page are all elements of Wastewater Reuse Permit LA-000001-03 and are enforceable as such. This permit does not relieve the City of Rupert, hereafter referred to as the permittee, from responsibility for compliance with other applicable federal, state or local laws, rules, standards or ordinances.

C. Abbreviations, Definitions

Ac-in	Acre-inch. The volume of water or wastewater to cover 1 acre of land to a depth of 1 inch. Equal to 27,154 gallons.
BMP or BMPs	Best Management Practices
COD	Chemical Oxygen Demand
DEQ or the Department	Idaho Department of Environmental Quality
Director	Director of the Idaho Department of Environmental Quality, or the Directors Designee, i.e. Regional Administrator
ET	Evapotranspiration – Loss of water from the soil and vegetation by evaporation and by plant uptake (transpiration)
GS	Growing Season – Typically April 01 through October 31 (214 days)
GW	Ground Water
GWQR	IDAPA 58.01.11 "Ground Water Quality Rule"
Guidance	Guidance for Reclamation and Reuse of Municipal and Industrial Wastewater, DEQ.
HLRgs	Growing Season Hydraulic Loading Rate. Includes any combination of wastewater and supplemental irrigation water applied to reuse hydraulic management units during the growing season. The HLRgs limit is specified in Section F. Permit Limits and Conditions.
HLRngs	Non-Growing Season Hydraulic Loading Rate. Includes any combination of wastewater and supplemental irrigation water applied to each hydraulic management unit during the non-growing season. The HLRngs limit is specified in Section F. Permit Limits and Conditions.
HMU	Hydraulic Management Unit (Serial Number designation is MU)
IWR	Irrigation Water Requirement – Any combination of wastewater and supplemental irrigation water applied at rates commensurate to the moisture requirements of the crop, and calculated monthly during the growing season (GS). Calculation methodology for the IWR can be found at the following website: http://www.kimberly.uidaho.edu/water/appndxet/index.shtml. The equation used to calculate the IWR at this website is: $IWR = (CU - P_e) / E_i$ CU is the monthly consumptive use for a given crop in a given climatic area. CU is synonymous with crop evapotranspiration P_e is the effective precipitation. CU minus Pe is synonymous with the net irrigation requirement (IR) E_i is the irrigation system efficiency. To obtain the gross irrigation water requirement (IWR), divide the IR by the irrigation system efficiency.
IDAPA	Idaho Administrative Procedures Act.
LG	Lagoon
lb/ac-day	Pounds (of constituent) per acre per day
MG	Million Gallons (1 MG = 36.827 acre-inches)
MGA	Million Gallons Annually (per WLAP Reporting Year)
NGS	Non-Growing Season – Typically November 01 through March 31 (151 days)
NVDS	Non-Volatile Dissolved Solids (= Total Dissolved Solids less Volatile Dissolved Solids)
O&M manual	Operation and Maintenance Manual, also referred to as the Plan of Operation

C. Abbreviations, Definitions

Reuse	The use of reclaimed wastewater for beneficial uses including, but not limited to, land treatment, irrigation, aquifer recharge, use in surface water features, toilet flushing in commercial buildings, dust control, and other uses.
Reuse Reporting Year	The reporting year begins with the non-growing season and extends through the growing season of the following year, typically November 01 – October 31. For example, the 2000 Reporting Year was November 01, 1999 through October 31, 2000.
SAR	Sodium Absorption Ratio
SI	Supplemental Irrigation water applied to the reuse treatment site.
Soil AWC	Soil Available Water Holding Capacity - the water storage capability of a soil to a depth at which plant roots will utilize (typically 60 inches or root limiting layer)
SMU	Soil Monitoring Unit (Serial Number designation is SU)
SW	Surface Water
TDS	Total Dissolved Solids or Total Filterable Residue
TDIS	Total Dissolved Inorganic Solids – The summation of chemical concentration results in mg/L for the following common ions: calcium, magnesium, potassium, sodium, chloride, sulfate, and 0.6 times alkalinity (alkalinity expressed as calcium carbonate). Nitrate, Silica and fluoride shall be included if present in significant quantities (i.e. > 5 mg/L each).
TMDL	Total Maximum Daily Load – The sum of the individual waste-load allocations (WLA's) for point sources, Load Allocations (LA's) for non-point sources, and natural background. Such load shall be established at a level necessary to implement the applicable water quality standards with seasonal variations and a margin of safety that takes into account any lack of knowledge concerning the relationship between effluent limitations and water quality. IDAPA 58.01.02 *Water Quality Standards and Wastewater Treatment Requirements*
Typical Crop Uptake	Typical Crop Uptake is defined as the median constituent crop uptake from the three (3) most recent years the crop has been grown. Typical Crop Uptake is determined for each hydraulic management unit. For new crops having less than three years of on-site crop uptake data, regional crop yield data and typical nutrient content values, or other values approved by DEQ may be used.
USGS	United States Geological Survey
WW	Wastewater applied to the reuse treatment site

D. Facility Information

Legal Name of Permittee	City of Rupert
Type of Wastewater	Municipal Wastewater (with industrial users)
Method of Treatment	Aerated lagoons, facultative lagoons, chlorine disinfection, slow rate wastewater reuse
Type of Facility	POTW (primary industrial users - potato processor and cheese manufacturing)
Facility Location	Facultative lagoons and land application site located about 4 miles NNE of the City of Rupert
Legal Location	Township 8S, Range 24 East, Sections 27, 33, 34 and 35
County	Minidoka
USGS Quad	Rupert Northwest and Acequia
Soils on Site	Silt loams, sandy loams, very stony and cobbly fine sandy loam, stony silt loam
Depth to Ground Water	Depth to first water ---------- approximately 100 feet Depth to regional aquifer --------- approximately 220 feet
Beneficial Uses of Ground Water	Agriculture, industrial, domestic
Nearest Surface Water	East Main Drain located 1/2 mile north of Section 33
Beneficial Uses of Surface Water	Agriculture
Responsible Official **Mailing Address** **Phone / Fax**	David Joyce - Wastewater Superintendent Dennis Andrews (alternate official) – Acting Public Works Director PO Box 426, Rupert, ID 83350 Phone (208) 434-2432 / Fax (208) 436-9920
Facility Consultants Mailing Address **Phone / Fax**	Forsgren Associates, 1444 West Bannock, Boise, ID 83702 Phone (208) 342-3144 / Fax (208) 383-0819

E. Compliance Schedule for Compliance Activities

The Activities in the following table shall be completed on or before the Completion Date unless modified by the Department in writing.

Compliance Activity Number Completion Date	Compliance Activity Description
CA-001-01R Three (3) years after permit issuance	Conduct seepage test by a method approved by DEQ. The standards for wastewater lagoons are governed by IDAPA 58.01.16.493. The test results must be submitted to the Department and the leakage rate for lagoons constructed prior to April 15, 2007 shall be no more than 0.25 inches per day or lower when the lagoons are located over sensitive aquifers or near 303d listed stream segments (IDAPA 58.01.06.493.03.c). If a structure or pond does not meet the seepage rate requirements the permittee shall follow the requirements of IDAPA 58.01.06.493.04. This applies to all wastewater storage or ponds at the treatment facility and the land application site.
CA-001-02R Prior to wastewater reuse to specified Management Units	Applies to management units: MU-00103, MU-00104, MU-00106, MU-00107 Submit a report for DEQ review and approval identifying the limiting areas due to steep slopes, rock outcrops, and depth to bedrock in the new proposed land application sites. The report shall include a plan to improve the suitability of the proposed land application sites.
CA-001-03R Prior to applying wastewater at site	City of Rupert shall prepare and submit to DEQ for approval a runoff management plan with control structures and other BMPs (e.g. collection basins, berms, etc.) designed to prevent runoff from any site or fields used for wastewater reuse to property not owned by City of Rupert except in the event of a 25-year, 24-hour storm event or greater, using Western Regional Climate Center (WRCC) Precipitation Frequency Map, Figure 28 'Isopluvials of 25-YR, 24-HR Precipitation'. For this site, the 25-year, 24-hour event is 1.8 inches. Upon approval of the plan by DEQ, City of Rupert shall implement the runoff management plan, and shall construct, operate, and maintain the control structures and other BMPs in accordance with the plan.
CA-001-04R 180 days prior to permit expiration	City of Rupert shall prepare and submit to DEQ a permit renewal application as required by IDAPA 58.01.17.300.04.

F. Permit Limits and Conditions

1) The Permittee is allowed to apply wastewater and treat it on a reuse site as prescribed in the tables below and in accordance with all other applicable permit conditions and schedules.

Category	Permitted Limits and Conditions
Type of Wastewater	Municipal Wastewater , with industrial users
Application Site Area	Application area is comprised of: • 295 acres, may be used after permit issuance • 368 acres, may **not** be used until site characterization is completed; See Compliance Activity CA-001-02R Total acreage: • Up to 663 acres Note: The exact value for total acreage allowed for wastewater reuse will be determined after Compliance Activity CA-001-02R is completed
Application Season	Growing season , April 1 through October 31
Certified Operator	The wastewater land application/reuse system shall employ, retain or contract with licensed land application/reuse operating personnel in accordance with the Wastewater Rules, IDAPA 58.01.16.203. A copy of the DEQ Public Wastewater System Operator Licensure Record Form, for the personnel that will be operating the system, shall be submitted to DEQ to demonstrate compliance with this requirement.
Maximum Hydraulic Loading Rate, Growing Season (includes wastewater and supplemental irrigation water, if used)	Growing Season (GS) Hydraulic Loading Rate shall not be substantially greater than the Irrigation Water Requirement (IWR) using data from the tables of the following University Of Idaho web site: http://www.kimberly.uidaho.edu/water/appndxet/index.shtml. IWR is equal to the Mean IR data from these tables divided by the irrigation system efficiency. In lieu of these tables, current climatic and evaporation data, or 30-year average data may be used to calculate the IWR, as defined on page 3 of this permit. Assume no carryover soil moisture and a leaching rate of zero in calculating the IWR. Application shall generally follow consumptive use rates for the crop throughout the season.
Runoff	No runoff of wastewater allowed.
Ground Water Quality	Ground Water Quality shall be in compliance with *Idaho Ground Water Quality Rule* IDAPA 58.01.11
Maximum COD Loading, seasonal average in Pounds / acre-day, each HMU	50 pounds/acre-day seasonal average for growing season.
Maximum Nitrogen Loading	150% of typical crop uptake (see definition), or UI Fertility Guide

F. Permit Limits and Conditions

Category	Permitted Limits and Conditions
Rate, pounds / acre-year, each HMU (from all sources including waste solids and supplemental fertilizers).	
Maximum Phosphorus Loading Rate, pounds / acre-year, each HMU (from all sources including waste solids and supplemental fertilizers).	150% of typical crop uptake (see definition), or UI Fertility Guide
Construction Plans	Prior to construction or modification of all wastewater facilities associated with the reuse system or expansion, detailed plans and specifications shall be reviewed and approved by DEQ. Within 30 days of completion of construction, the permittee shall submit as-built plans to DEQ or submit a certification letter stating that all construction was done in substantial compliance with DEQ approved plans and specifications.
Grazing	A grazing management plan shall be submitted to DEQ for review and approval prior to any grazing activities.
Allowable crops	Crops grown for direct human consumption (those crops that are not processed prior to consumption) are not allowed.
Fencing and Posting	Chain link fencing and warning signs are required around the treatment facility. Signs should read "Wastewater Treatment Facility – Keep Out" or equivalent.
Supplemental Irrigation Water Protection	For systems with wastewater and fresh irrigation water interconnections, DEQ approved backflow prevention devices are required.
Operating and Maintenance Manual (O&M Manual)	The wastewater treatment plant, reuse facilities, and all operations associated with the facility shall be operated in accordance with DEQ approved Operating and Maintenance Manual (O&M Manual). All updates to the Plan need to be submitted to DEQ for review and approval prior to implementation.
Odor Management	The wastewater treatment plant, reuse facilities, and other operations associated with the facility shall not create a public health hazard or nuisance conditions, including odors. These facilities shall be managed in accordance with the latest DEQ approved Odor Management Plan. All updates to the Plan need to be submitted to DEQ for review and approval prior to implementation.

F. Permit Limits and Conditions

Buffer Zone Distances (based on sprinkler irrigation)	Disinfection Level* (total coliform)	Distance to Public Access	Distances to Inhabited Dwellings	Distance to streams	Distance to private water sources	Distance to public water sources	Single sample maximum total coliform level
	2.2 /100 ml	0 feet	100 feet	100 feet	500	1000	23/100 ml
	23/100 ml	50 feet	300 feet	100 feet	500	1000	240/100ml
	230/100ml	300 feet	1,000 feet	100 feet	500	1000	2400/100ml

*Compliance determination method for disinfection requirements is as follows:

- For determining compliance with the 2.2 / 100 ml disinfection level, the median value of the last five (5) results must not exceed 2.2 / 100 ml. In addition, no single sample value shall exceed 23 / 100 ml.
- For determining compliance with the 23 / 100 ml disinfection level, the median value of the last five (5) results must not exceed 23 / 100 ml. In addition, no single sample value shall exceed 240 / 100 ml.
- For determining compliance with the 230 / 100 ml disinfection level, the median value of the last three (3) results must not exceed 230 / 100 ml. In addition, no single sample value shall exceed 2400 / 100 ml.

G. Monitoring Requirements

1) Appropriate analytical methods, as given in the *Guidance for Reclamation and Reuse of Municipal and Industrial Wastewater* or as approved by the Idaho Department of Environmental Quality (hereinafter referred to as DEQ), shall be employed. A description of approved sample collection methods, appropriate analytical methods and companion QA/QC protocol shall be included in the Operation and Maintenance Manual.
2) The permittee shall monitor and measure parameters and submit information as stated in the Facility Monitoring Table in this section.
3) Samples shall be collected at times and locations that represent typical environmental and process parameters being monitored.
4) Monitoring locations are described in Appendix 1. Environmental Monitoring Serial Numbers.
5) Monitoring is required at the frequency shown in the table below if wastewater is applied anytime during the time period shown. Unless otherwise agreed in writing by the DEQ, data collected and submitted shall include, but not be limited to, the parameters and frequencies in the Facility Monitoring Table as follows.
6) Ten (10) soil sample locations shall be selected for each soil management unit. Four (4) soil samples shall be collected at each sample location, one at 0-12 inches, one at 12-18 inches, one at 18-24 inches, and one at 24-36 inches. The soil samples collected at 0-12 inches from each sample location shall be composited. Similarly, all soil samples collected at 12-18 inches, 18-24 inches and 24-36 inches shall be composited. This method will yield four (4) samples for analysis, one for 0-12 inches, one for 12-18 inches, one for 18-24 inches, and one for 24-36 inches for each soil management unit.
7) Ground Water Domestic Wells: Ground water domestic wells shall be purged a minimum of three (3) casing volumes prior to obtaining a sample of the domestic well. The static water level shall be measured prior to pumping or sampling the ground water.
8) Ground Water Monitoring Wells: Ground water monitoring wells shall be purged a minimum of three casing volumes and/or until field measurements for pH, specific conductance and temperature meet the following conditions: two successive temperature values measured at least five minutes apart are within one degree Celsius of each other, pH values for two successive measurements measured at least five minutes apart are within 0.2 units of each other, and two successive specific conductance values measured at least five minutes apart are within 10% of each other. This procedure will determine when the wells are suitable for sampling for constituents required by the permit. Other procedures, such as low flow sampling, may be considered by DEQ for approval. The static water level shall be measured prior to pumping or sampling for ground water.
9) Annual reporting of monitoring requirements is described in Section H, Standard Reporting Requirements.

Facility Monitoring Table

Frequency	Monitoring Point	Description and Type of Monitoring	Parameters
Daily (when land applying)	Discharge Point of Wastewater to Reuse (Flow Meter)	Volume of Wastewater land applied	Gallons/Month and acre-inches/month applied to each Hydraulic Management Unit – record monthly and report annually.
Monthly (when land applying)	Discharge Point of Wastewater to Reuse	Composite sample containing equal volume grab samples of wastewater from WW-00101 (OCC) WW-00102 (NCC). See Appendix 1 for location of the Wastewater Sampling Points.	Chemical Oxygen Demand (COD), Total Kjeldahl Nitrogen, Nitrite+Nitrate Nitrogen, Total Phosphorous, Total Dissolved Solids (TDS), Volatile Dissolved Solids (VDS), pH

G. Monitoring Requirements

Frequency	Monitoring Point	Description and Type of Monitoring	Parameters
During Application Season For total coliform, monitoring frequency depends on level of treatment. Less than or equal to: 1. 2.2 / 100 ml. - Twice Weekly 2. 23 / 100 ml. - Weekly 3. 230 / 100 ml. - Twice Monthly	Discharge Point of Wastewater to Reuse	Grab sample	Total Coliform
Monthly	Flow Meter or Calibrated Pump Rate	Supplemental Irrigation Water	Gallons/Month and acre-inches/month applied to each Hydraulic Management Unit – record monthly and report annually.
Annually	Each hydraulic management unit (HMU)	Calculate Irrigation Water Requirement (IWR) for Crop Grown	Volume (inches / acre and total gallons) for each month for growing season (GS) – report annually
Annually	Each hydraulic management unit (HMU)	Acres used for reuse	Acres
Annually	Each hydraulic management unit (HMU)	COD loading calculation (GS – 214 days)	COD applied in lbs/acre-day
Annually	Each hydraulic management unit (HMU)	Calculate and Report total nitrogen and phosphorus loading calculation from wastewater	Nitrogen and phosphorus applied in lbs/acre-year
Annually	Each hydraulic management unit (HMU)	Report total nitrogen and phosphorus load from fertilizer and all other non-wastewater application	Nitrogen and phosphorus applied in lbs/acre-year
Annually	Each hydraulic management unit (HMU)	Report total dissolved inorganic solids (TDIS) from wastewater	Total Dissolved Inorganic Solids (TDIS) applied in lbs/acre-year
Annually	Each hydraulic management unit (HMU)	Crop Type and Crop Yield Calculation	tons/acre, lbs/acre, or bushels/acre

G. Monitoring Requirements

Frequency	Monitoring Point	Description and Type of Monitoring	Parameters
Annually	Each Hydraulic management unit (HMU)	Crop Nutrient Uptake from Crop Tissue Analysis or from standard tables for Crop Type and yield.	Nitrogen, phosphorus and ash uptake in lbs/acre-year Specify the source when standard tables are used.
Four (4) times per year (Jan, April, July and Oct)	Ground Water /Domestic Monitoring Wells (see the Environmental Monitoring Serial Number for the list, in Appendix 1)	Grab sample of ground water monitoring wells (see Section G, note 4 and 7)	Nitrate Nitrogen, TDS, Chloride, Total Phosphorus, Total Iron, Total Manganese, Dissolved Iron[a], Dissolved Manganese[a], Fecal Coliform, a. Analytical results are required for dissolved iron and / or manganese only if the results for total iron and / or manganese exceed the standards in IDAPA 58.01.11.200.01.b.
Twice per year (March and October)	Each hydraulic management unit (HMU)	Composite soil samples (see Section G, note 6)	Electrical Conductivity, Nitrate Nitrogen, Ammonium Nitrogen, Plant available Phosphorous (use Olsen method for soils with pH 6.5 or greater, use Bray method if soil pH is less than 6.5)
Twice per year (March and October of the first and last full year of the permit)	Each hydraulic management unit (HMU)	Composite soil samples (see Section G, note 6)	Sodium Absorption Ratio, DTPA-Fe, DTPA-Mn
Annually	All flow measurement locations.	Flow measurement calibration of all flows to reuse.	Document the flow measurement calibration of all flow meters and pumps used directly or indirectly measure all wastewater, tail water, flushing water, and supplemental irrigation water flows applied to each HMU.

G. Monitoring Requirements

Frequency	Monitoring Point	Description and Type of Monitoring	Parameters
Annually	All supplemental irrigation pumps directly connected to the wastewater distribution system.	Backflow testing	Document the testing of all backflow prevention devices for all supplemental irrigation pumps directly connected to the wastewater distribution system(s). Report the testing date(s) and results of the test (pass or fail). If any test failed, report the date of repair or replacement of backflow prevention device, and if the repaired/replaced device is operating correctly.

H. Standard Reporting Requirements

1. The permittee shall submit an Annual Wastewater Reuse Site Performance Report ("Annual Report") prepared by a competent environmental professional no later than January 31 of each year which shall cover the previous year (see section F for reuse reporting period). The Annual Report shall include results for monitoring required in Section G, status of compliance activities, and an interpretive discussion of monitoring data (ground water, vadose zone, hydraulic loading, wastewater etc.) with particular respect to environmental impacts by the facility.

2. The annual report shall contain the results of the required monitoring as described in Section G. Monitoring Requirements. If the permittee monitors any parameter more frequently than required by this permit, the results of this monitoring shall be included in the calculation and reporting of the data submitted in the annual report.

3. The annual report shall be submitted to the Engineering Manager in the applicable Regional DEQ Office.

Boise Regional Office
1445 N. Orchard
Boise, ID 83706-2239
208-373-550

Coeur d'Alene Regional Office
2110 Ironwood Parkway
Coeur d'Alene, ID 83814
208-769-1422

Idaho Falls Regional Office
900 N. Skyline, Suite B
Idaho Falls, ID 83402
208-528-2650

Lewiston Regional Office
1118 "F" Street
Lewiston, ID 83501
208-799-4370

Pocatello Regional Office
444 Hospital Way, #300
Pocatello, ID 83201
208-236-6160

Twin Falls Regional Office
1363 Fillmore St.
Twin Falls, ID 83301
208-736-2190

A copy of the annual report shall also be mailed to:

Richard Huddleston, P.E.
Wastewater Program Manager
1410 N. Hilton
Boise, ID 83706
208-373-0561

4. Notice of completion of any work described in Section E. Compliance Schedule for Required Activities shall be submitted to the Department within 30 days of activity completion. The status of all other work described in Section E shall be submitted with the Annual Report.

5. All laboratory reports containing the sample results for monitoring required by Section G. Monitoring Requirements of this permit shall be submitted with the Annual Report.

I. Standard Permit Conditions: Procedures and Reporting

1. The permittee shall at all times properly maintain and operate all structures, systems, and equipment for treatment, operational controls and monitoring, which are installed or used by the permittee to comply with all conditions of the permit or the Wastewater Reuse Permit Regulations, in conformance with a DEQ approved, current Plan of Operations (Operations and Maintenance Manual) which describes in detail the operation, maintenance, and management of the wastewater treatment system. This Plan of Operations shall be updated as necessary to reflect current operations.

2. Wastewater(s) or recharge waters applied to the land surface must be restricted to the premises of the application site. Wastewater discharges to surface water that require a permit under the Clean Water Act must be authorized by the U.S. Environmental Protection Agency.

3. Wastewater must not create a public health hazard or nuisance condition as stated in IDAPA 58.01.16.600.03. In order to prevent public health hazards and nuisance conditions the permittee shall:

a. Apply wastewater as evenly as practicable to the treatment area;
b. Prevent organic solids (contained in the wastewater) from accumulating on the ground surface to the point where the solids putrefy or support vectors or insects; and
c. Prevent wastewater from ponding in the fields to the point where the ponded wastewater putrefies or supports vectors or insects.

4. The permittee shall:

a. Manage the wastewater reuse treatment site as an agronomic operation where vegetative cover is grown and harvested or grazed to utilize the nutrients and minerals in the wastewater, and,
b. Not hydraulically overload any particular areas of the wastewater reuse treatment site.

5. All waste solids, including dredgings and sludges, shall be utilized or disposed in a manner which will prevent their entry, or the entry of contaminated drainage or leachate therefrom, into the waters of the state such that health hazards and nuisance conditions are not created; and to prevent impacts on designated beneficial uses of the ground water and surface water. The permittee's management of waste solids shall be governed by the terms of the DEQ approved Waste Solids Management Plan, which upon approval shall be an enforceable portion of this permit.

6. If the permittee intends to continue operation of the permitted facility after the expiration of an existing permit, the permittee shall apply for a new permit at least six months prior to the expiration date of the existing permit in accordance with the Wastewater Reuse Permit Regulations and include seepage tests on all lagoons per latest DEQ procedures.

7. The permittee shall allow the Director of the Idaho Department of Environmental Quality or the Director's designee (hereinafter referred to as Director), consistent with Title 39, Chapter 1, Idaho Code, to:

a. Enter the permitted facility,
b. Inspect any records that must be kept under the conditions of the permit.
c. Inspect any facility, equipment, practice, or operation permitted or required by the permit.
d. Sample or monitor for the purpose of assuring permit compliance, any substance or any parameter at the facility.

8. The permittee shall report to the Director under the circumstances and in the manner specified in this section:

a. In writing thirty (30) days before any planned physical alteration or addition to the permitted facility or activity if that alteration or addition would result in any significant change in information that was submitted during the permit application process.
b. In writing thirty (30) days before any anticipated change which would result in non-compliance with any permit condition or these regulations.
c. Orally within twenty-four (24) hours from the time the permittee became aware of any non-compliance which may endanger the public health or the environment at telephone numbers provided in the permit by the Director (see below)

DEQ Regional Office: see Permit Certification Page
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d. In writing as soon as possible but within five (5) days of the date the permittee knows or should know of any non-compliance unless extended by the DEQ. This report shall contain:

i. A description of the non-compliance and its cause;
ii. The period of non-compliance including to the extent possible, times and dates and, if the non-compliance has not been corrected, the anticipated time it is expected to continue; and
iii. Steps taken or planned to reduce or eliminate reoccurrence of the non-compliance.

e. In writing as soon as possible after the permittee becomes aware of relevant facts not submitted or incorrect information submitted, in a permit application or any report to the Director. Those facts or the correct information shall be included as a part of this report.

9. The permittee shall take all necessary actions to prevent or eliminate any adverse impact on the public health or the environment resulting from permit noncompliance.

10. The permittee shall determine (on an on-going basis) if any noxious weed problems relate to the permitted sites. If problems are present, coordinate with the Idaho Department of Agriculture or the local County authority regarding their requirements for noxious weed control. Also address these control operations in an update to the Operations and Maintenance Manual.

J. Standard Permit Conditions: Modifications, Violations, and Revocations

1. The permittee shall furnish to the Director within reasonable time, any information including copies of records, which may be requested by the Director to determine whether cause exists for modifying, revoking, re-issuing, or terminating the permit, or to determine compliance with the permit or these regulations.

2. Both minor and major modifications may be made to this permit as stated in IDAPA 58.01.17.700.01 and 02 with respect to any conditions stated in this permit upon review and approval of the DEQ.

3. Whenever a facility expansion, production increase or process modification is anticipated which will result in a change in the character of pollutants to be discharged or which will result in a new or increased discharge that will exceed the conditions of this permit, or if it is determined by the DEQ that the terms or conditions of the permit must be modified in order to adequately protect the public health or environment, a request for either major or minor modifications must be submitted together with the reports as described in I. *Standard Reporting Requirements*, and plans and specifications for the proposed changes. No such facility expansion, production increase or process modification shall be made until plans have been reviewed and approved by the DEQ and a new permit or permit modification has been issued.

4. Permits shall be transferable to a new owner or operator provided that the permittee notifies the Director by requesting a minor modification of the permit before the date of transfer.

5. Any person violating any provision of the Waste Water Reuse Permit Regulations, or any permit or order issued thereunder shall be liable for a civil penalty not to exceed ten thousand dollars ($10,000) or one thousand dollars ($1,000) for each day of a continuing violation, whichever is greater. In addition, pursuant to Title 39, Chapter 1, Idaho Code, any willful or negligent violation may constitute a misdemeanor.

6. The Director may revoke a permit if the permittee violates any permit condition or the Wastewater Reuse Permit Regulations.

7. Except in cases of emergency, the Director shall issue a written notice of intent to revoke to the permittee prior to final revocation. Revocation shall become final within thirty-five (35) days of receipt of the notice by the permittee, unless within that time the permittee request an administrative hearing in writing to the Board of the Department of Environmental Quality pursuant to the Rules of Administrative Procedures contained in IDAPA 58.01.23.

8. If, pursuant to Idaho Code ə 67-5247, the Director finds the public health, safety or welfare requires emergency action, the Director shall incorporate findings in support of such action in a written notice of emergency revocation issued to the permittee. Emergency revocation shall be effective upon receipt by the permittee. Thereafter, if requested by the permittee in writing, a revocation hearing before the Board of the Department of Environmental Quality shall be provided. Such hearings shall be conducted in accordance with the Rules of Administrative Procedures contained in IDAPA 58.01.23..

9. The provisions of this permit are severable and if a provision or its application is declared invalid or unenforceable for any reason, that declaration will not affect the validity or enforceability of the remaining provisions.

10. The permittee shall notify the DEQ at least six (6) months prior to permanently removing any permitted reuse facility from service, including any treatment, storage, or other facilities or equipment associated with the reuse site. Prior to commencing closure activities, the permittee shall: a) participate in a pre-site closure meeting with the DEQ; b) develop a site closure plan that identifies specific closure, site characterization, or cleanup tasks with scheduled task completion dates in accordance with agreements made at the pre-site closure meeting; and c) submit the completed site closure plan to the DEQ for review and approval within forty-five (45) days of the pre-site closure meeting. The permittee must complete the DEQ approved site closure plan.

Appendix 1
Environmental Monitoring Serial Numbers

HYDRAULIC MANAGEMENT UNITS

Serial Number	Description	Acres
MU-00101	Lockwood Pivot (Pivot 1)	124
MU-00102	Zimmatic Pivot (Pivot 2)	107
MU-00103	Future South of Lockwood Pivot (Pivot 4)	124*
MU-01004	Future South of Zimmatic Pivot (Pivot 5)	124*
MU-00105	Handset Area between facultative lagoons 1 and 3	64
MU-00106	Future handset Area South of lagoon 3	80*
MU-01007	Future handset Area South-West of lagoon 3	40*
MU-01008	Reinke Pivot was abandoned	NA

* - Acreage may be reduced as result of the percent of rock outcrop present at the site (Compliance Activity CA-001-02R)

WASTEWATER SAMPLING POINTS

Serial Number	Description
WW-00101	Composite of disinfected effluent from the old chlorine contact chamber (OCC) to MU-00101 (Lockwood or #1 Pivot) and to MU-00102 (Zimmatic or #2 Pivot)
WW-00102	Composite of disinfected effluent from the new chlorine contact chamber (NCC) to MU-00105 (Handset Area between facultative lagoon 1 and 2)

Appendix 1
Environmental Monitoring Serial Numbers

SOIL MONITORING UNITS

Serial Number	Description	Associated MU
SU-00101	Lockwood Pivot (Pivot 1)	MU-00101
SU-00102	Zimmatic Pivot (Pivot 2)	MU-00102
SU-00103	Future South of Lockwood Pivot (Pivot 4)	MU-00103
SU-01004	Future South of Zimmatic Pivot (Pivot 5)	MU-01004
SU-00105	Handset Area between facultative lagoons 1 and 3	MU-00105
SU-00106	Future handset Area South of lagoon 3	MU-00106
SU-01007	Future handset Area South-West of lagoon 3	MU-01007
SU-01008	Reinke Pivot was abandoned	MU-01008

GROUND WATER MONITORING

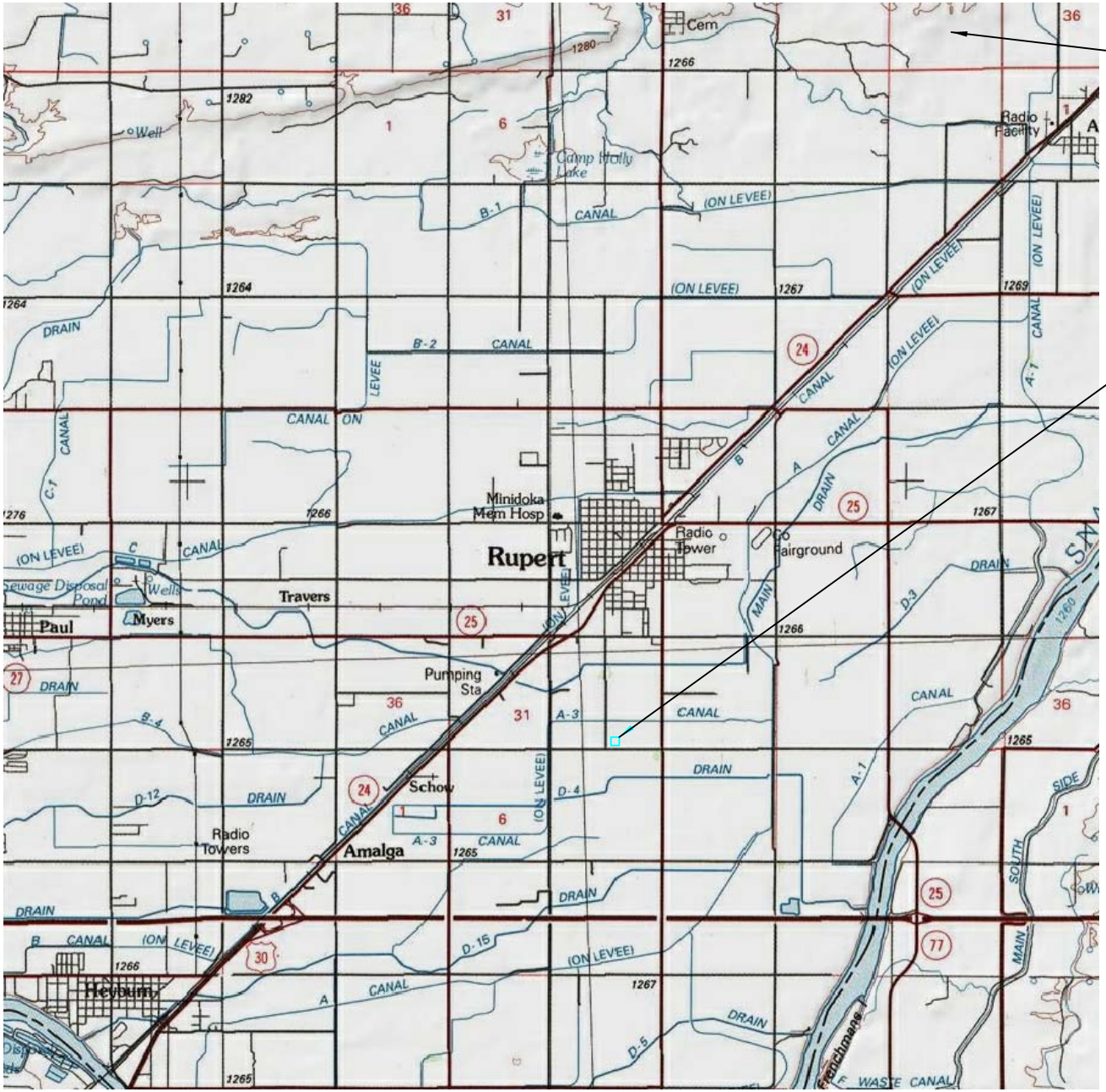
Serial Number	Description (domestic)	Location
GW-000101	Domestic well at 600 North, 150 East (Leonard Larson)	Upgradient
GW-000102	Domestic well at 560 North, 275 East (Paul Crane)	Upgradient
GW-000103	Domestic well at 400 North, 300 East (Richard Strickler)	Upgradient
GW-000104	Domestic well at 380 North, 100 East (Sam Sanderson)	Upgradient
GW-000105	Domestic well at 500 North Meridian (Bruce Bagnall)	Downgradient

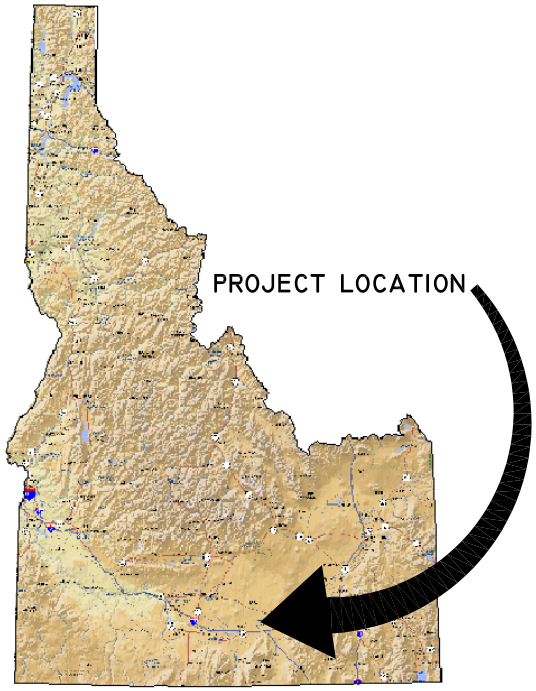
Appendix 1
Environmental Monitoring Serial Numbers

LAGOONS

Serial Number	Description
LG-00101	Aerated Lagoon no. 1
LG-00102	Aerated Lagoon no. 2
LG-00103	Cell no. 1
LG-00104	Cell no. 2
LG-00105	Cell no. 3

Appendix 2
Site Maps





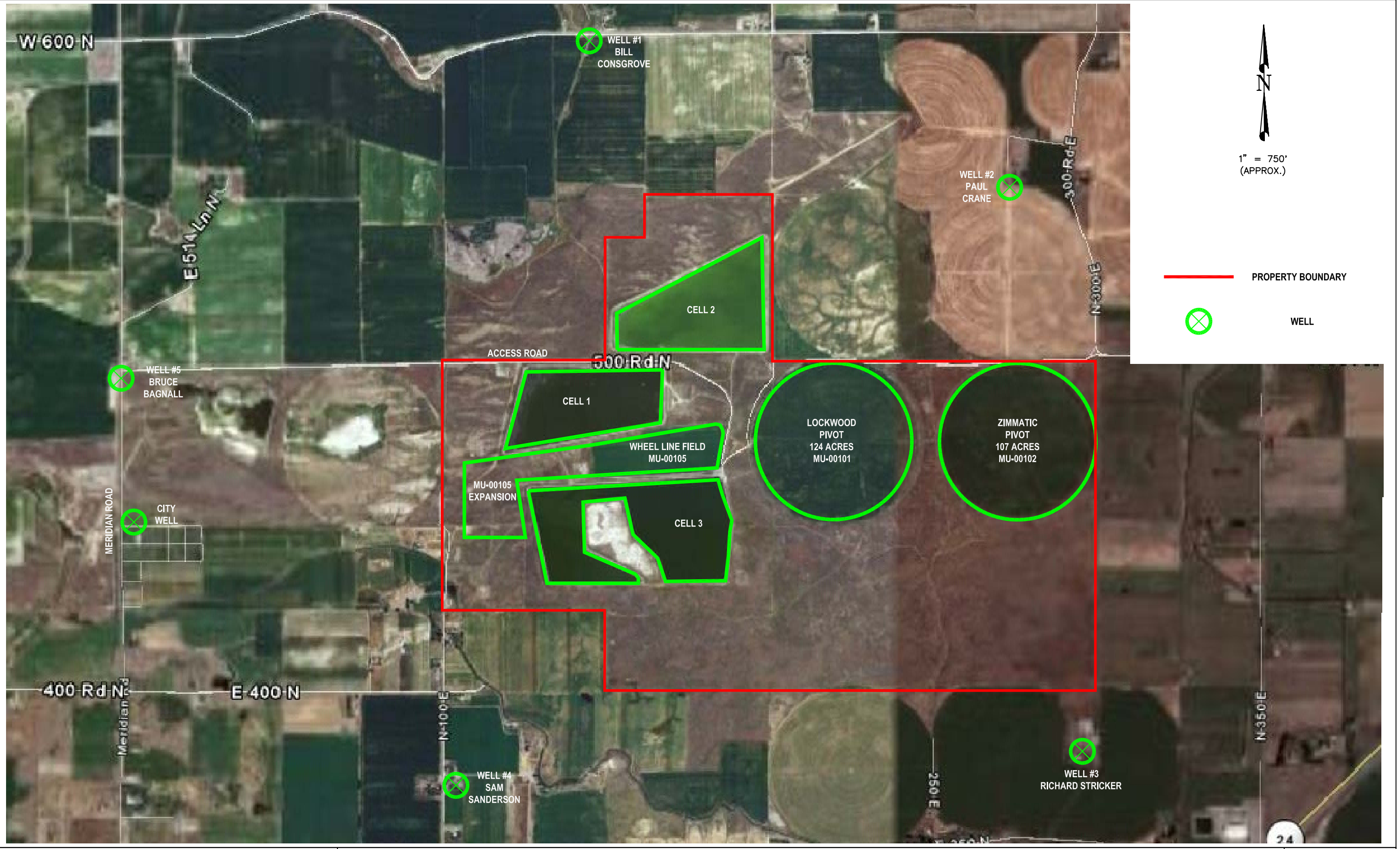
FORSGREN Associates Inc.

LOCATION MAP

FIGURE 1

CITY OF RUPERT WASTEWATER
LAND APPLICATION PERMIT RENEWAL

PROJECT NO.
206084



FORSGREN Associates Inc.	LAND APPLICATION SITE VICINITY MAP	FIGURE 2
	CITY OF RUPERT WASTEWATER LAND APPLICATION PERMIT RENEWAL	PROJECT NO. 2060084

NOTE:

1. EXISTING LAGOON AREA TOTALS 232.7 ACRES.
2. EXISTING EFFLUENT IRRIGATION ACREAGE TOTALS 261.
3. EXISTING AND FUTURE EFFLUENT IRRIGATION TOTALS UP TO 295 ACRES.

N

DISTRIBUTION LINES
MAIN INLET PIPE
CELL 2
73.12 ACRES
PRIMARY CELL DIVERSION BOX
ACCESS ROAD
OVERFLOW AND DRAIN TO CELL NO. 2
14" AC 1977 (ASSUMED)
DISTRIBUTION LINES
CELL 1
63.22 ACRES
OVERFLOW TO CELL NO. 3
14" PVC-1993
MAIN DIVERSION BOX W/ 3 WAY VALVE
MU-00105 EXPANSION (34 ACRES)
WHEEL LINE FIELD 30 ACRES
CHLORINE SERVICE BLDG.
CHLORINE CONTACT CHAMBER NO. 1 & IRRIGATION PUMPS NO. 1 & 2
LOCKWOOD PIVOT
MU-00101
124 ACRES
1309 FT
10" PVC (1987)
12" AC (1981)
CENTER PIVOT IRRIGATION 1
ZIMMATIC PIVOT
MU-00102
107 ACRES
1219 FT
CENTER PIVOT IRRIGATION 2
CHLORINE CONTACT CHAMBER NO. 2 AND IRRIGATION PUMP NO. 3
LAGOON SERVICE BLDG.
CELL 3
96.31 ACRES
SECONDARY CELL DIVERSION BOX
14" AC-1977
FROM TRANSFER PUMP STATION NO.1 OR NO.3

FORSGREN Associates Inc.

LAGOON & LAND APPLICATION FACILITY SITE MAP

CITY OF RUPERT WASTEWATER LAND APPLICATION PERMIT RENEWAL

FIGURE 3

PROJECT NO. 2060084